



FACT SHEET

UNITED STATES AIR FORCE

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Air Force Command and Control Training and Innovation Group (AFC2TIG)



The AFC2TIG is a subordinate unit to the Aerospace Command and Control & Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Langley AFB, Virginia. The AC2ISRC serves as the lead agency to pull command and control (C2) together across the Air Force. Under the mantle of the AC2ISRC, the AFC2TIG is the focal point for integration of all aerospace campaign C2 processes, including rapid technology assessment on behalf of the warfighter. AFC2TIG possesses the unique ability to test, exercise, experiment, and train all elements of C2: people, processes, and systems.

AFC2TIG conducts specialized training in planning and execution of joint operations for the USAF, sister services, and coalition partners, as well as readiness training for the Numbered Air Forces (NAF). In addition, AFC2TIG executes operational tests and evaluations (OT&Es) and conducts Acceptance Tests (AT) of command, control, communications, computers, and intelligence, surveillance, and reconnaissance (C4ISR) systems. Unit personnel evaluate capabilities and limitations, determine optimum operation configuration, identify operating deficiencies, and recommend corrective action for United States C2 architectures.

On behalf of the USAF, the AFC2TIG executes the Joint Expeditionary Force Experiment (JEFX), and is responsible for dynamic evaluation of emerging technologies and procedures for inclusion in the Air Force's C2 architecture.

The AFC2TIG is comprised of five Hurlburt-based squadrons, one detachment at Kirtland AFB, New Mexico, and an operating location at Fort Hood, Texas. The 605th Test Squadron has a detachment in Seattle, Washington and Melbourne, Florida. The C2 Warrior School has a detachment at Ft. McPherson, Georgia and liaisons from the Army, Navy and Marines. Additionally, Air Mobility Command and Air Intelligence Agency established units at Hurlburt Field.

505th Exercise Control Squadron (ECS)



The 505 ECS - home of the Professional Control Force (PCF) - plans, conducts, and assesses continuation training for the "C2 Warrior." By integrating a team of highly experienced wargame controllers with the organic modeling and simulation capability of the Air Force Suite of Models, the squadron provides a realistic portrayal of warfare and the effects of aerospace power in a stand-alone mode or in concert with the Joint Training Confederation. The 505 ECS PCF is involved in supporting 10 major, worldwide exercises annually through the global grid and distributed training network. The cornerstone is the BLUE FLAG series of exercises for NAF commanders and staffs.

505th Operations Squadron (OS)



The 505 OS is recognized Air Force-wide as the Air Operations Center (AOC) C2 operations experts. The squadron maintains proficiency and assesses improvements in fielded automated systems. 505 OS personnel are the first to receive training in the new systems. They function as "keepers of the standards" for USAF AOCs and are chief advocates for field-operator concerns during development, testing, and fielding of new systems. The 505 OS expertise is leveraged against AFC2TIG testing requirements to ensure the warfighter is represented in C2 testing. They are the USAF's focus for developing, documenting and institutionalizing AOC composition, processes and procedures.



505th Systems Squadron (SYS)

The 505 SYS is AFC2TIG's communications support team comprised of the group's premier testing, training, and exercising experts who serve the evolving needs of today's elite warfighters. In 1997, the squadron established the first-ever testing and training AOC in the Air Force. The 505 SYS facility provides AFC2TIG squadrons a forum for testing, evaluating, and training in fixed/tactical communications and data links while allowing for a near real-world environment for Air Force-level exercises and experiments, such as Joint Expeditionary Force Experiment.

The 505 SYS is also the only US Air Force testbed tasked to test the Ground Theater Air Control System (GTACS) equipment and assist in the development of tactics, techniques, and procedures for the AC2ISRC. In this capacity, the squadron provides administrative support and conducts tests and evaluations and concept demonstrations of state-of-the-art technology for GTACS and Combat Air Forces. The 505 SYS was key to testing of the US Air Force's \$2.4 billion Modular Control Equipment (MCE) and developing and demonstrating the Combat Integration Center for the Department of Defense's Theater Air Defense/Theater Missile Defense Program.



605th Test Squadron (TS)

The 605 TS conducts operational tests and evaluations (OT&Es) and tactics development and evaluation of C4ISR collection, processing, and exploitation systems. Among others, 605 TS programs include Airborne Warning and Control System (AWACS), Joint Surveillance Target Attack Radar System (Joint STARS), Modular Control Equipment (MCE), Theater Battle Management Core Systems (TBMCS), and Air Operations Center (AOC) as a weapons system. The 605 TS is responsible for development and execution of the "Joint Command and Control ISR" Joint Test and Evaluation nomination. Additionally, the 605 TS manages and coordinates advanced concept technology demonstrations, operational concept demonstrations, and other technology-insertion and spiral-development efforts while providing configuration management for AOC systems.

The 605 TS has two detachments: one in Seattle, Washington and the other in Melbourne, Florida.



Command and Control Warrior School (C2WS)

The C2WS conducts instruction to joint service personnel on doctrinal procedures for Air Operations Center (AOC) training. Emphasizing real-world plans and procedures, the C2WS is the executive agent for Contingency Theater Automated Planning System (CTAPS) and Air Tasking Order (ATO) training. Graduating over 1,800 warfighters annually, the C2WS provides a seven-course curriculum using advanced computer systems and distributed technology, and conducts training for all ranks, from junior airmen to senior general officers.

Training and certifying all its own instructors, the C2WS designs evaluation tools, and conducts student critiques, testing, and graduate-evaluation programs. Instruction includes aerospace doctrine and relationship to the command, control, and employment of aerospace forces; airspace control as it affects the employment of combat aircraft weapons systems; and operational planning considerations for air operations C2.

The C2 Warrior School has a detachment at Ft. McPherson, Georgia and liaisons from the Army, Navy and Marines.



Theater Air Command and Control Simulation Facility (TACCSF)

The TACCSF (pronounced "tack-sif") maintains and operates as a resource available to the Department of Defense and other government agencies, and is a national asset operated by the US Air Force with US Army participation. The TACCSF is capable of modeling execution-level C2 and weapons systems involved in theater defense.

A true operator-in-the-loop simulation facility, the TACCSF is where combat-qualified air defense crewmembers and C2 personnel from operational units participate in test trials and exercises. The facility simulates air defense functions, such as detection, tracking, identification, weapons allocation, and control, and kill assessment for joint theater operations.